

KACH, V.; ALEXANDER, S.

Manufacture of slide bearings with a bronze lining. p. 485. (STROJIRENSKA
VYROBA, Vol. 4, No. 11, Nov 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

Mach, V

Mach, V.; Alexandr, S.

Mach, V.; Alexandr, S. Experience gained in applying modern technology to the manufacture of precision machines in small series. (To be contd.) p. 55.

Vol. 5, no. 2, Feb. 1957
STROJIRENSKA VYROBA
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
no. 5

MACH, V.

Determining the law of water filtration through the soils. p.127.
(Vodohospodarsky Casopis, Vol. 5, No. 2, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

MACH, V.

"Flow resistance of small valves in water pipelines."p.33

ADRAVOTNI TECHNIKA A VZDUCHOTECHNIKA (Ceskoslovenska akademie ved. Ceskoslovenska
vedecka technicka spolecnost pro zdravotni techauku a vzduhotechniku) Praha, Czechoslovakia
Vol. 2, no. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no.6, June 1959

Uncl.

MACH, V.

Determining the state of fluids at the end of pipelines. p. 225.

ZDRAVOTNI TECHNIKA A VZDUCHOTECHNIKA. (Ceskoslovenska akademie ved. Ceskoslovenska vedecka technicka spolecnost pro zdravotni techniku a vzduchotechniku)
Praha, Czechoslovakia. Vol. 2, no. 5, 1959.

Monthly list of East European Accessions (EEAI), Vol. 9, no. 1, Jan. 1960

Uncl.

MACH, Vlastimil, inz.

Pressure losses by friction in polyethylene pipes. Zdravot tech
7 no.6:250-259 '64.

1. Faculty of Mechanical Engineering of the Higher School of Technology,
Prague.

MACH, Vaclav

Outline of the applied survey made by the Prague Department of
Construction Geology of the national enterprise Geologicky pruzkum
in 1962. Geol pruzkum 5 no.3:93-94 Mr '63.

MRACEK, Josef; MACH, Vladimir

Suppressing the fusion in casting the ribbed cylinders of Diesel motors. Slevarenstvi 10 no.12:487-488 D '62.

1. Ceskoslovenske zavody naftovych motoru, zavod 03, Horovice.

MACH, Vlasta, inz., C.Sc.; HOLST, Leos, inz., dr.; JAVOR, Tibor, inz., C.Sc.

Symposiums of the Building Research Institute in Bratislava. Inz
stavby 10 no.1:32-34 Ja '62.

MACH, Yu. L.

2(1,2)

P.2

PHASE I BOOK EXPLOITATION SOV/3114

Avtomaticheskoye regulirovaniye aviadvigateley; sbornik statey, vyp. 1 (Automatic Control of Aircraft Engines; Collection of Articles, Nr 1) Moscow, Oborongiz, 1959. 182 p. Errata slip inserted. 3,400 copies printed.

Ed. (Title page): A A. Shevyakov; Ed. (Inside book): S.I. Bumshteyn; Ed. of Publishing House: N.A. Gortsuyeva; Tech. Ed.: N.A. Pukhlikova; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for workers at scientific research institutions and design bureaus.

COVERAGE: This book contains three articles in which results of the investigation of pressure-ratio regulator characteristics are described. These regulators work on the principle of small drops and proportion reduction and may be used in aircraft engines. A thorough analysis of a laminar flow of air in capillary conduits of automatic regulating systems is given. Problems connected with the calculation of centrifugal atomizers in which viscosity

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SOV/3114

of the working fluid is taken into consideration are discussed in a special article.

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2. Method of error determination. Analysis of the graphical representation of characteristics. Numerical examples

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3. Comments on the derivation of formulas

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SOV/3114

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5. Remarks on errors of some other pressure ratio indicators 16
- Ch. II. Analysis of Errors of Gas Pressure Ratio Indicators Beyond the Limits of the Proportional Reduction of Pressure. Use of Jet Pumps for Artificial Lowering of Pressure in the Outlet From the Interthrottle Chamber in Gas Pressure Ratio Regulators 18
 1. Errors connected with exceeding the limits of the proportional reduction of the gas pressure 18
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Automatic Control (Cont.)

SQV/3114

1. Problems of investigation. Testing methods
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Bogacheva, A.V. Investigation of a Laminar Flow of Air in
Capillary Conduits of Pneumatic System Elements

74

The author states that experiments determined a functional dependence of the resistance coefficient and the coefficient of input μ_n in an adiabatically insulated laminar flow of a viscous compressible gas in long plane capillary conduits, on the determining dimensionless parameters: geometric parameters of the conduit, Reynolds number, reduced velocity of the flow (or pressure ratio), and the dimensionless velocity of the moving wall of the conduit.

Prakhov, A.M. Investigation and Calculation of Centrifugal Injectors

113

The author's method of investigation and calculation of centrifugal injectors is based on the analysis of a number of former methods. He takes into consideration the viscosity of the working fluid on the basis of the equation of the quantity of motion. Consideration of actual processes taking place in the

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Automatic Control (Cont.)

SOV/3114

injector should be avoided. The problem was restricted to a one stage centrifugal atomizer. However, the calculation of the problem made possible the consideration of more complicated atomizers.

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Card 5/5

Mac H, Yu. L.

28(1) PHASE I BOOK EXPLOITATION SOV/2702
Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
Sesinar po pnevmogidravlicheskoy avtomatike. 1st. Moscow, 1957
Sistemy, ustroystva i elementy pnevmogidravlicheskoy avtomatiki: (Sbornik
(Pneumatic and Hydraulic Circuits, Devices, and Elements in
Automation). Collection of papers. Moscow, Izd-vo AN SSSR,
1959. 233 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: M. A. Ayzman, Doctor of Technical Sciences, Professor
Ed. of Publishing House: A. A. Tal', Tech. Ed.: T. P. Polyskova.

PURPOSE: This collection of papers is intended for scientific
research workers and engineers in the field of design and con-
struction of pneumatic and hydraulic equipment and accessories
for automation.

COVERAGE: This collection contains papers read at the Seminar on
Pneumatic and Hydraulic Devices for Automation, May 28, 1957.
The collection is divided into the following three groups: 1)
newly developed pneumatic and hydraulic circuits 2) pneumatic
and hydraulic devices, including regulating units, transmitters
and hydraulic actuators, actuating mechanisms, special-purpose devices,
and auxiliary equipment and 3) elements of pneumatic and hyd-
raulic devices for automation, such as controlled and permanent
nozzles and diaphragms. No personalities are mentioned. Refer-
ences follow several of the papers.

Andreyeva, Ye. A. Moscow. Calculating the Static Character- 172
istics of Back-pressure Type Control Devices
This paper deals with a theoretical analysis of back-pressure
type elements. The flow of fluid, pressure distribution on
plates, and general characteristics are discussed.

Shumskiy, K. P. Moscow. Results of Experimental and Theoretical 181
Investigations of Back-pressure Type Control Devices
Bogachern, A. V. Moscow. High-velocity Laminar Air Flow in 194
Flat Capillary Channels
This paper discusses air flow in flat capillary channels at
varying pressures. The flow rate is experimentally in-
vestigated and results shown graphically. Charts to be used
for determining resistance coefficients and flow rates are
presented.

Kichin, I. N. Moscow. Nozzle Clogging and Methods of Combating 205
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The tendency of certain working fluids toward nozzle and
slit clogging is examined. Minimum dimensions of nozzle
and slit sections at which the fluid flow rate remains
are determined. Some practical methods of combating clogging
are presented.

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Afanasyev, V. K. Moscow. On Variation of Effective Areas of 216
Fabric Diaphragms
Changes in the magnitude of effective areas of corrugated
diaphragms during the stroke are analyzed and their signifi-
cance in the design of a KETMA pneumatic regulator discussed.

Koch, Yu. L. and G. P. Stepanov Moscow. Investigation of 224
Characteristics of Diaphragms Used in Sensitive Elements of
Regulators
Characteristics of rubberized-fabric diaphragms made from
various materials are discussed. The influence of hysteresis in
relation to the stroke and the influence of the temperature
of the surrounding medium are investigated. Test results of
beryllium-bronze diaphragms are presented.

MACH, Yu. L.

automatic control - jet engines

AK

CIA Sci Info Rpt PB131591 - T57, 4/26/60

IV. ENGINEERING

un ef

Aeronautical Engineering

04. Ratio Controller for Gas Pressures in Jet Engines

"Study of the Characteristics of Gas-Pressure Ratio Controllers Designed for Jet Engines," by L. A. Yalozanov, Yu. L. Mach, and G. P. Stepanov; Aviatsionicheskoye Regulyirovaniye Armativitatey (Automatic Control of Aircraft Engines), Moscow, 1959, pp 5-13

The study of the precision of the transmitting elements of regulators for pressure ratio involves two problems. The first concerns the characteristics of various elements of the transducer (diaphragm, throttle, etc.) and of the interthrottle space, the determination of possible diversions of these characteristics, the study of friction in the moving parts of the transducer, and the determination of possible external influences. The second problem involves the determination of the influence of the above factors on the accuracy of measurement of the pressure ratios. The first part of this work presents an analysis of the influence of the errors of various elements on the resultant transducer error. The second part presents an analysis of supplementary errors which occur during the absence of a supercritical flow at the outlet from the interthrottle space of the transducer. An artificial reduction of gas pressure at this outlet through the use of ejectors is suggested as a means of broadening the area of proportional control of the pressures. This affords an adjustment of those errors which are connected with an infraction of the principle of proportional pressure control. Results are given of an investigation of jet and vortex-type ejectors for gas pressure ratio controllers.

Uncompensated errors resulting from friction and hysteresis effects in the diaphragm material are particularly unfavorable. Special experiments for the determination of the diaphragm error are described. The data given here refer only to tests on rubber-fabric diaphragms.

2016

MACH, Zdenek, inz.: KOPROFK, Jan. 1964.

Group transformers with aluminum winding. El tech obzor 6:
no. 6:311-315 Je '64.

1. Zavody V.I.Lenina National Enterprise, Pizen.

TOCZYŃSKI, Tadeusz; MACH, Zdzisław

Iodine determination in blood. Przegl. lek. Krakow 10 no.12a:
385-387 Dec 54.

1. Z Zakładu pathol. ogólnej i Dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz

(BLOOD

: iodine determ. methods)

(IODINE, in blood
determ., methods)

TOCZYSKI, Tadeusz; MACH, Zdzislaw

Iodemia level in increased thyroid function. Przegl. lek. Krakow
10 no.12a:387-388 Dec 54.

1. Z zakladu patol. ogoln. i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz, z I kliniki chirurg. A.M. w Krakowie -
kierownik prof. dr. J.Bogusz

(IODIDES, in blood
in hyperthyroidism)

(HYPERTHYROIDISM, blood in
iodemia level)

(BLOOD, in various diseases
hyperthyroidism, iodides level)

MACH, Zdzisław

TOCZYŃSKI, Tadeusz; MACH, Zdzisław

Iodine level in preoperative and immediately postoperative period.
Przegl. lek. Krakow 10 no.12a:388-389 Dec 54.

1. Z Zakładu patol. ogólnej i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz. Z I kliniki chirurg. A.M. w Krakowie -
kierownik prof. dr. J.Bogusz

(HYPERTHYROIDISM, surgery

preop. & postop. iodine level)

(IODINE, metabolism

preop. & postop. in hyperthyroidism)

MACH, Zdzislaw; TOCZYSKI, Tadeusz

Effect of calcium of iodine level in blood. Przegl. lek. Krakow
10 no.12a:389 Dec 54.

1. Z Zakladu patol. ogolnej i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz

(IODINE in blood
eff. of calcium)

(BLOOD
iodine level, eff. of calcium)

(CALCIUM, effects
on iodine level in blood)

MACH, Zdzislaw; TOCZYSKI, Tadeusz

Effect of vitamin D on iodine level in blood. Przegl. lek.
Krakow 10 no.12a:390 Dec 54.

1. Z zakladu patol. ogolnej i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz

(IODINE, in blood

eff. of vitamin D)

(BLOOD

iodine in, eff. of vitamin D)

(VITAMIN D, effects

on iodine level in blood)

MACH, Zdzislaw; TOCZYSKI, Tadeusz

Effect of cortisone on the iodine level in blood. Przegl. lek.
Krakow 10 no.12a:391-392 Dec 54.

1. Z zakladu patol. ogolnej i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz.

(CORTISONE, effects
on iodine level in blood)

(BLOOD
iodine level, eff. of cortisone)

(IODINE, in blood
eff. of cortisone)

MACH, Zdzislaw; TOCZYSKI, Tadeusz

Behavior of iodine in blood in experimental vitamin C deficiency.
Przegl. lek. Krakow 10 no.12a:392-393 Dec 54.

1. Z zakladu patol. ogolnej i dosw. A.M. w Krakowie - kierownik
prof. dr. B.Giedosz.

(SCURVY, experimental

iodine level in blood, in guinea pigs)

(IODINE, in blood

in scurvy in guinea pigs)

(BLOOD, in various diseases

scurvy, experimental iodine level in guinea pigs)

MACEK, Zdenek, Doc. MUDr

Disseminated cerebrospinal sclerosis in a seven-year-old girl.
Cesk.pediat. 10 no.4:290-292 May 55.

1. Z neurologické kliniky KU (prednosta: akademik K.Henner).
(MULTIPLE SCLEROSIS, in infant and child)

MACH, Zdzislaw; TOCZYNSKI, Tadeusz

~~Research on iodine - calcium antagonism. Przegl. lek., Krakow 11~~
Research on iodine - calcium antagonism. Przegl. lek., Krakow 11
no.1:24-29 Jan 55.

1. Z zakladu patol. ogolnej i dosw. A.M. w Krakowie; kier. prof.
dr. med. B.Giedosz.

(IODINE, metabolism

calcium antagonism, eff. on iodine level in blood in
rabbits)

(CALCIUM, metabolism

eff. on iodine level in blood in rabbits)

(BLOOD

iodine level, eff of calcium in rabbits)

(METABOLISM

iodine-calcium antagonism, eff. on iodine level in blood
in rabbits)

LACERPTA MEDICA Sec.3 Vol10/11 Endocrinology Nov56

1993. MACH Z. and TOCZYSKI T. Zakł. Patol. Ogólnej i Dośw. Akad. Med.,
Kraków. *Obciążanie jodem w różnych stanach czynności tarczycy. Thyroid
function and iodine metabolism PRZEGŁ. LEK. 1955, 11/3 (72-
75) Graphs 1 Tables 6

Potassium iodide (200 mg./kg.) was given per stomach tube to rabbits and the blood
iodine level was determined 12 hr. later. The animals were either normal, thyro-
idectomized or made hyperthyroid by TSH treatment. The highest blood level was
found in the normal, the lowest value in the hyperthyroid animals. The low level
after thyroidectomy was caused by a markedly increased urinary excretion of io-
dine.

MACH 2 12.5/76

MACH, Bronislaw; TOCZYSKI, Tadeusz; MACH, Zdzislaw (Krakow

Iodine level in blood and gas metabolism in tetanus. Przegl.lek.
Krakow 11 no.4:120-126 '55.

1. Z Kliniki Chorob Zakaznych A.M. w Krakowie, Kierownik: prof.
dr J. Kostrzewski, Z Zakladu Patologii Ogol. i Dosw. A.M. w Kra-
kowie Kierownik: prof. dr B. Giedosz.

(TETANUS

acetylcholine metabolism in, relation to iodine level
in blood)

(ACETYLCHOLINE, metabolism
in tetanus, relation to iodine level in blood)

(BLOOD, in various diseases
tetanus, iodine level, relation to acetylcholine
metab.)

(IODINE, in blood
in tetanus, relation to acetylcholine metab.

MACH, Zdzislaw; GUZEK, Jan, W.

Effect of cobalt on the thyroid gland. Polski tygod. lek.
11 no.41:1737-1742 8 Oct 56.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnek A.M. w Krakowie;
kierownik: prof. dr. med. Bronislaw Giedosz) Adres: Zakl. Patol.
Ogoln. i Dosw., Krakow, Czysta 18.

(THYROID GLAND, effect of drugs on,
cobalt (Pol))

(COBALT, effects,
on thyroid gland (Pol))

EXCERPTA MEDICA Sec.2 Vol.10/7 Phy.Biochem. July 57

2893. MACH Z. Zakl. Patol. Ogólnej i Doswiadczałnej A. M., Kraków. Dalsze badania antagonizmu jodowo-wapniowego *Further investigation on the iodine-calcium antagonism* Pol. Tyg. lek. 1956, 11/44 (1862—1867) Graphs 3 Tables 7
Prolonged administration of calcium salts brings about a decrease of the iodine level in the blood, an increased urinary excretion of iodine, an increase in weight of the thyroid and a decrease of iodine in the thyroid. Prolonged administration of calcium salts with food brought about a distinct decrease of iodine in the tissues.

EXCERPTA MEDICA Sec 5 Vol. 10/6 Pathology June 57

1828. SZAFRAN L. and MACH Z. Zakł. Patol. Ogólnej i Doświadczalnej A. M., Kraków. *Wpływ wapnia na stan czynnościowy i obraz histologiczny tarczycy. Influence of calcium on the functional state and the histological picture of the thyroid POL. TYG. LEK. 1956, 11/48 (2031-2035) Graphs 1 Tables 7

Referring to the iodine-calcium antagonism, the iodine content in the blood, and in the thyroid and the morphological picture of the thyroid in the progeny of rats, which had been kept on a Ca-abundant diet, were examined. The iodine level in the blood decreased on the average to 4.88 $\mu\text{g.}\%$ (in the control animals to 6.25 $\mu\text{g.}\%$). The weight of the thyroid was doubled. The iodine content in the thyroid decreased and amounted on the average to 1.07 $\mu\text{g.}$ (in the control animals on an average to 2.83 $\mu\text{g.}$). Taking into consideration the hyperplasia of the gland and calculating the iodine content per 1 g. of weight, it was found, that the iodine content decreased

EXCERPTA MEDICA Sec.2 Vol.10/8 Phy.Biochem. Aug 57

3297. MACH Z. and KOSTKA E. Zakł. Patol. Ogóln. i Dośw. A.M., Kraków.

*Dalsze badania; przemiany jodowej w gnilcu. Further investigations on iodine metabolism in scurvy POL.TYG.LEK. 1956, 11/51 (2137-2139) Tables 5

In scorbutic animals the iodine content of the thyroid and other tissues examined was decreased. The amount of decrease varied in different tissues, being greatest in the thyroid. Addition of Ca lactate to the scorbutogenic diet enhanced the changes in iodine metabolism.

MACH Zdzisław

Behavior of I^{131} in the thyroid & in various tissues after the administration of calcium salts. Polski tygod. lek. 13 no.12:425-428 14 Mar 56.

1. Z Zakładu Patologii Ogólnej i Doswiadczałnej A. M. w Krakowie;
kierownik: prof. Bronisław Giedosz.

(IODINE, metab.

eff. of calcium lactate on radioiodine storage in thyroid
& other tissues in rabbits (Pol))

(THYROID GLAND, metab.

radioiodine storage, eff. of calcium lactate in rabbits
(Pol))

(LACTATE, eff.

calcium lactate on radioiodine storage in thyroid & other
tissues in rabbits (Pol))

POLAND / Human and Animal Physiology. Inner Secretion.

T-7

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3521

Author : Mach, Z., Zygulska-Machowa, H.

Inst : Not given

Title : Effect of Cortisone on Iodine Metabolism in the Light
of Tests with Radioactive Iodine

Orig Pub : Patol. Polska, 1957, 8, No 4, 317-321

Abstract : Following administration to rats of 5 mg cortisone or 0.25 - 5 units of thyrotropic hormone for 7 days, the serum concentration of J^{131} was not changed. When thyrotropic hormone and cortisone were administered simultaneously, the serum concentration of J^{131} decreased. The amount of protein-bound J^{131} increased after introduction of thyrotropic hormone and decreased after cortisone and cortisone plus thyrotropic hormone. Urinary excretion of J^{131} was least in rats which received thyrotropic hormone.

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POLAND / Human and Animal Physiology. Internal
Secretion. The Thyroid Gland.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101998.

Author : Guzek, Jan W.; Mach, Zdzizlaw.

Inst : Not given.

Title : Deprivation of Daylight and Endocrine Glands. III.
Iodine Metabolism and the Histologic Structure of
the Thyroid Gland.

Orig Pub: Patol. polska, 1957, 8, No 3, 265-273.

Abstract: In rabbits, who lived in darkness for the duration
of one year, the content of I increased in the
blood, the amount of I decreased in the thyroid
gland (TG), the capacity of TG and some other or-
gans (kidneys) to absorb I increased. The amount
of colloids in TG decreased, the heights of cells

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08/31/2001

CIA-RDP86-00513R001031310007-5

Country : POLAND
Journal : Human and Animal Physiology.
Internal Secretion. General Problems.
Ref Zhur-Biol., No 23, 1958, 100502

Author : Mach, Zdzizlaw; Zypulska-Machowska, Helena
Institution : Effects of Cortisone upon the I¹³¹ Content in
Tissues.

Orig. Pub. : Patol. polska, 1957, 8, No 4, 321-325

Abstract : As 0.25-0.5 units of thyrotropic hormone (TH)
were introduced daily in a course of 7 days,
the absorption of I¹³¹ by the thyroid gland
(TG) of rats began to increase, and as 1 mg of
cortisone (C) were introduced daily in the
course of 7 days, it decreased. If TH and C are
administered simultaneously, I¹³¹ absorption by
TG is lower than in rats receiving TH only and
higher than in rats receiving C only. When I
or TG were administered separately, they did

Country : POLAND
Category : Human and Animal Physiology. T
Inner Secretion. General Problems.
Abs. Jour. : Ref Zhur-Biol., No 23, 1950, 106583
Author :
Instit. :
Title :

Orig. Pub. :

Abstract :
(cont)

not change the 131 I contents in the liver, kidneys, and muscles. The simultaneous introduction of 131 I and I was accompanied by a diminution of 131 I contents in these organs.

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2/2

MACH, Zdzislaw;KOSTKA, Elzbieta.

Further studies on iodine metabolism in scurvy. Polski tygod. lek.
12 no.33:1279-1280 12 Aug 57.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie;
kierownik: prof. dr. med. Bronislaw Giedosz. Adres: Krakow, Zaklad
Patologii Ogolnej i Doswiadczalnej A. M.

(IODINE, metabolism,
in scurvy (Pol))
(SCURVY, metabolism,
iodine (Pol))

POLAND/Human and Animal Physiology - Body Temperature Regulation. T-2

Abs Jour : Ref Zhur - Biol., No 13, 1953, 83973

Author : Mach, Zdzisław; Toczyski, Tadeusz; Zygulska-Machowa, Helena

Title : The Levels of Iodine Metabolism in Hypothermia.

Orig Pub : Polski tygod. lekar., 1957, 12, No 41, 1571-1575

Abstract : Rabbits were intravenously injected with KI (100 g/kg). Simultaneously, some of the animals received intravenous injections of 0.1 or 0.05 g/kg of sodium salts of luninal for a period of 10 days. Then, for about 3½ hours all animals (with the exception of controls) were subjected to chilling by water containing ice. As such hypothermia was carried out, the blood's and the thyroid gland's (TG) I content became lowered. TG absorbed 3 times less of I than normally. In hypothermia, "narcosis of the diencephalon" protected TG from losing I and even increased its content, without, however, influencing the ability of TG to absorb I.

Card 1/1

MACH, Zdzislaw; TOCZYSKI, Tadeusz; ZYGULSKA-MACHOWA, Helena

Iodine metabolism in hypothermia. Polski tygod. lek. 12 no.41:
1571-1575 14 Oct 57.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie;
kierownik: prof. dr med. Bronislaw Giedosz. Adres: Krakow, ul. Czysta
18.

(IODINE, metabolism,
eff. of hypothermia & Phenobarbital anesth. in animals (Pol))
(PHENOBARBITAL, anesthesia and analgesia,
eff. on iodine metab. in animals (Pol))
(HYPOTHERMIA, effects,
same)

Country : Poland
 Category= : Human and Animal Physiology, Internal Secretion T
 Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8259
 Author : Mach Z.; Szafran, Leslaw
 Institut. :
 Title : The Effect of Calcium on the Function and Histology
 of the Thyroid Gland. II.
 Orig. Pub. : Polski tygod. lekar., 1957, 12, No. 42, 1611--1614

Abstract : The investigation was conducted on rats, of which the two preceding generations had received increased amounts of calcium in their diets, as did the animals used in the present experiment. The rats were injected with 200 γ /kg of iodine, and 6 hours later the iodine content of various organs was determined. The concentration of iodine by the thyroid gland was 6 times lower than normal. The iodine content of liver, kidneys and muscles was normal. Urinary excretion of iodine was increased. Structural changes in the thyroid gland were not detected.

Card:

1/1

MACH, Zdzislaw; SZAFRAN, Leslaw

Effect of calcium on thyroid function and histology. Polski tygod.
lek. 12 no.42:1611-1614 21 Oct 57.

1. Z Zakladu Patologii Ogolnej i Dowiadczalnej A. M. w Krakowie;
prof. dr Med. Bronislaw Giedosz. Adres: Krakow, ul. Czysta 18. Zaklad
Patol. Og. i Dosw. A.M.

(THYROID GLAND, effect of drugs on,
calcium, in rats (Pol))

(CALCIUM, effects,
on thyroid gland in rats (Pol))

KOSTKA, Elzbieta; GUZEK, Jan W.; MACH, Zdzislaw

Histological changes in the thyroid in various stages of scurvy.
Pat.polska 9 no.2;145-153 Apr-June '58.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A.M. w Krakowie.
Kierownik: prof. dr med. B. Giedosz. Adres autora: Krakow, ul. Czysta 18.
(THYROID GLAND, pathol.
histol. in scurvy in various stages in guinea pig. (Pol)))
(SCURVY, pathol.
thyroid histol. in various stages of scurvy in guinea pig.
(Pol))

MACH, Zdzislaw (Krakow, ul. Czysta 18 Zaklad Patologii A. M.)

Effect of calcium on $^{1-131}$ metabolism in the body. Polski tygod.
lek. 13 no.5:161-164 3 Feb 58.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie;
kierownik: prof. dr med. Bronislaw Giedosz.

(CALCIUM, eff.

on iodine metab., radioiodine determ. (Pol))

(IODINE, metab.

eff. of calcium, radioiodine determ. (Pol))

MACH, Zdzislaw; KOSTKA, Eizbieta

¹³¹I metabolism in the body in various phases of avitaminosis C. Polski tygod. lek. 13 no.32:1229-1230 11 Aug 58.

1. (Z Zakla ̄n Patologii Ogolnej i Doswiadczalnej Akademii Medycznej w Krakowie; kierownik: prof. dr med. B. Biedosz). Krakow, ul Czysta 18. Zaklad, Patol. Og. i Oswiadczalnej.

(SCURVY, exper.

radioliodine metab. at various phases in guinea pigs (Pol))
(IODINE, metab.

in exper. scurvy at various phases, isotope study in guinea pigs (Pol))

WACH, Zdzislaw

Effects of calcium on iodine metabolism in the light of research with radioactive iodine. Polski tygod. lek. 13 no.13:461-465 31 Mar 58.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie; kierownik: prof. dr med. Bronislaw Giedosz). Adres: autora: Krakow, ul. Czysta 18 Zaklad Patologii Og i Dosw. A.M.

(CALCIUM, eff.

on iodine metab., isotope study in rabbits (Pol))

(IODINE, metab.

eff. of calcium, isotope study in rabbits (Pol))

EXCERPTA MEDICA Sec 2 Vol 12/6 Physiology June 59

2260. METABOLISM OF I^{131} AND DIFFERENT STAGES OF VIT. C DEFICIENCY -
Przemiana I^{131} w ustroju w różnych okresach awitaminozy C - Mach Z.
and Kostka E. Zakł. Patol. Ogól. Doświadczalnej Akad. Med. Krakow -
POL. TYG. LEK. 1958, 13/32 (1229-1230) Graphs 1 Tables 2

In guinea-pigs on a scorbutigenic diet the metabolism of I^{131} was found to be only slightly changed. On the 29th day of scurvy the urinary excretion of I^{131} was increased and its amount in the thyroid decreased (as compared with controls receiving ascorbic acid). These changes took place between the 21st and the 29th day of ascorbic acid deprivation. This is in accordance with the findings of other investigators. (11, 5)

GIEDOSZ, B.; MACH, Z.; ZIEMBA-STERECKA, M.

Hormonal regulation of ergothioneine metabolism. II. Polski tygod.
lek. 14 no.38:1699-1701 21 Sept 59.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie:
prof. dr med. Bronislaw Giedosz).
(EROTHIONEINE, metab.) (BLOOD SUGAR)

GIEDOSZ, Bronislaw; MACH, Zdzislaw; GUZEK, Jan W.

Role of sulfur in iodine metabolism. Pat. polska 10 no.1:13-17
Jan-Mar 59.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej Akademii Medycznej
w Krakowie Kierownik: prof. dr B. Giedosz. Adres autorow: Krakow,
ul. Czysta 18.

(IODINE, metabolism,
eff. of sulfur in animals (Pol))
(SULFUR, eff.
on iodine metab. in animals (Pol))

MACH, Zdzisław; ZYGOJSKA-MACHOWA, Helena

Effect of mesencephalic anesthesia on radioiodine metabolism
in the organism. Pat.polska 10 no.1:19-25 Jan-Mar 59.

1. Z Zakładu Patologii Ogólnej i Doswiadczalnej A. M. w Krakowie
Kierownik: prof. dr B. Gideodosz. Adres Autorow: Krakow, ul. Czysta
18.

(IODINE, metabolism,
eff. of methylthiouracil & phenobarbital, radioisotope
study (Pol))
(PHENOBARBITAL, eff.
on radioiodine metab., with methylthiouracil (Pol))
(THIOURACIL, rel. cpds.
methylthiouracil, eff. on radioiodine metab., with
phenobarbital (Pol))

T-7

POLAND / Human and Animal Physiology. Inner Secretion.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3521

Author : Mach, Z.; Zygulska-Machowa, H.

Inst : Not given

Title : Effect of Cortisone on Iodine Metabolism in the Light of Tests with Radioactive Iodine

Orig Pub : Patol. Polska, 1957, 8, No 4, 317-321

Abstract : Following administration to rats of 5 mg cortisone or 0.25 - 5 units of thyrotropic hormone for 7 days, the serum concentration of J^{131} was not changed. When thyrotropic hormone and cortisone were administered simultaneously, the serum concentration of J^{131} decreased. The amount of protein-bound J^{131} increased after introduction of thyrotropic hormone and decreased after cortisone and cortisone plus thyrotropic hormone. Urinary excretion of J^{131} was least in rats which received thyrotropic hormone.

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031310007-5

Abs Jour : Ref Zhur - Biol., No 23, 1959, 100503

Author : Mach, Zdzislaw; Zygulska-Machowa, Helena

Title : Effect of Cortisone on J^{131} Content in Tissues.

Orig. Pub. : Patol. polsk., 1957, 8, No 4, 321-323

Abstract : As 0.25-0.5 units of thyrotropic hormone (TH) were introduced daily in the course of 7 days, the absorption of J^{131} by the thyroid gland (TG) of rats became increased, and as 5 mg of cortisone (C) were introduced daily in the course of 7 days, it decreased. If TH and C are administered simultaneously, J^{131} absorption by TG is lower than in rats receiving TH only and higher than in rats receiving C only. When C or TG were administered separately, J^{131} did

Card:

1/2

Country : POLAND
 Title : Human and Animal Physiology. T
 Topic : Inner Secretion. General Problems.
 Ref. Jour. : Ref Zhur-Fiol., No 23, 1956, 106502
 Author : Mach, Zdzislaw; Zypulska-Machowa, Helena
 Instit. :
 Title : Effects of Cortisone upon the I¹³¹ Content in Tissues.
 Ref. Jour. : Patol. polsk., 1956, No 4, 323-325
 Abstract : As 0.25-0.5 units of thyrotropic hormone (TH) were introduced daily in the course of 7 days, the absorption of I¹³¹ by the thyroid gland (TG) of rats became increased, even as 5 mg of cortisone (I) were introduced daily in the course of 7 days, it decreased. If TH and I are administered simultaneously, I¹³¹ absorption by TG is lower than in rats receiving TH only and higher than in rats receiving I only. When I or TG were administered separately, they did

Card: 1/2

Country : POLAND
Category : Human and Animal Physiology. T
Inner Secretion. General Problems.
Abs. Jour. : Ref Zhur-Biol., No 23, 1950, 106583
Author :
Institute :
Title :
Orig. Pub. :
Abstract :
(cont) not change the ^{131}I contents in the liver, kidneys, and muscles. The simultaneous introduction of TE and I was accompanied by a diminution of ^{131}I contents in these organs.

Page 2/2

MACH, Z.

POLAND/Human and Animal Physiology - Body Temperature Regulation. T-2

Abs Jour : Ref Zhur - Biol., No 13, 1953, 83973

Author : Mach, Zdzislaw; Toczyski, Tadeusz; Zygulska-Machowa, Helena

Inst :

Title : The Levels of Iodine Metabolism in Hypothermia.

Orig Pub : Polski tygod. lekar., 1957, 12, No 41, 1571-1575

Abstract : Rabbits were intravenously injected with KI (100 g/kg). Simultaneously, some of the animals received intravenous injections of 0.1 or 0.05 g/kg of sodium salts of luminal for a period of 10 days. Then, for about 3½ hours all animals (with the exception of controls) were subjected to chilling by water containing ice. As such hypothermia was carried out, the blood's and the thyroid gland's (TG) I content became lowered. TG absorbed 3 times less of I than normally. In hypothermia, "narcosis of the diencephalon" protected TG from losing I and even increased its content, without, however, influencing the ability of TG to absorb I.

Card 1/1

.. POLAND / Human and Animal Physiology. Internal
Secretion. The Thyroid Gland.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101998.

Author : Guzek, Jan W.; Mach, Zdzizlaw.

Inst : Not given.

Title : Deprivation of Daylight and Endocrine Glands. III.
Iodine Metabolism and the Histologic Structure of
the Thyroid Gland.

Orig Pub: Patol. polska, 1957, 8, No 3, 265-273.

Abstract: In rabbits, who lived in darkness for the duration
of one year, the content of I increased in the
blood, the amount of I decreased in the thyroid
gland (TG), the capacity of TG and some other or-
gans (kidneys) to absorb I increased. The amount
of colloids in TG decreased, the heights of cells

Card 1/2

• ... POLAND / Human and Animal Physiology. Internal
Secretion. The Thyroid Gland.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101998.

Abstract: of the follicular epithelium and the size of nuclei increased. Staying in darkness is accompanied by an increase of TG function.

Card 2/2

50

GIEDOSZ, B.; MACH, Zdz.

On iodopexic capacity of the ovaries. Pat.polska 10 no.3:301-305
'59.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A.M. w Krakowie.
Kierownik: prof.dr med. Bronislaw Giedosz.
(OVARIES chem.)
(IODINE chem.)

GIEDOSZ, Bronislaw; MACH, Zdzislaw; ZIERBA-STERECKA, Maria

Ergothioneine in various functional states of the thyroid. Polski tygod. lek. 14 no.33:1521-1523 17 Aug 59.

1. (Z Zakladu Patologii Ogolnej i Doswiadczalnej A. M. w Krakowie, kierownik: prof. dr med. Bronislaw Giedosz).
(ERGOTHIONEINE, metab.) (THYROID GLAND, physiol.)

GIEDOSZ, B.; MACH, Z.; GUZEK, J.; KOSTKA, E.; STERECKA, M.

Effects of chronic furfural poisoning. Acta medica polona(Warszawa)
1 no.3/4:203-217 1960.

1. Department of General and Experimental Pathology, Medical
Academy in Cracow Director: Professor B. Giedosz.

(FURALDEHYDE toxicol)

GIEDOSZ, Bronisław; MACH, Zdzisław

On the mechanism of action of casein on iodine metabolism.
Pat polska 11 no.1:1-5 '60.

1. Z Zakładu Patologii Ogólnej i Doświadczalnej A.M. w Krakowie,
Kierownik: Prof. dr Bronisław Giedosz.
 (IODINE metab.)
 (CASEIN pharmacol.)

MACH, Zdzislaw; KOSTKA, Elzbieta

On the mechanism of action of adrenalin on iodine metabolism.
Pat polska 11 no.1:7-11 '60.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A.M.w Krakowie,
Kierownik: Prof. dr Bronislaw Giedosz.
(IODINE metab.)
(EPINEPHRINE pharmacol.)

GIEDOSZ, Bronislaw; GUZEK, Jan; MACH, Zdzislaw

Effect of thyroidectomy and strumectomy on the behavior of radioiodine in the brain. Pat. polska 12 no.2:117-119 '61.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej A.M. w Krakowie Kie-
rownik: prof. dr Bronislaw Giedosz

(IODINE metab)

(THYROID GLAND physiol)

(BRAIN metab)

GIEDOSZ, Bronislaw; MACH, Zdzislaw

Effect of physical effort on the lactic level in the blood of animals
poisoned with furfurol. Pat. polska 12 no.4:391-394 '61.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej AM w Krakowie
Kierownik: prof. dr Br. Giedosz.

(LACTATES blood) (EXERTION)
(FURALDEHYDE toxicol)

MACH, Zdzisław

Effect of iodine on the cerebral carbohydrate metabolism. Endokr.
Pol. 14 no.6:573-580 N-D '63.

1. Zakład Patologii Ogólnej i Doswiadczalnej Akademii Medycznej
w Krakowie (Kierownik Prof. dr B. Giedosz).

MACH, Zdzisław

PBI in the blood and some tissue in thyrotropic hormone excess.
Pat. Pol. 15 no. 4:547-551 O-D '64.

1. Z Zakładu Patologii Ogólnej i Doswiadczałnej Akademii
Medycznej w Krakowie (Kierownik: prof. dr. med. B. Świeżyński).

MACH, Zdzislaw

The mechanism of thyroid crises in the light of protein-bound iodine tests. Folia med. Cracov. 7 no.1:127-159 '65.

MACHA, A.; ZEISS.

MACHA, A.; ZEISS. Graphic-mathematical method for determination of maximum geomagnetic anomalies. p. 20

Vol. 4, no. 1, Jan. 1956

RUDY

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, 1957

MACHA, F.; MNOUCEK, K; KNOBLOCH, D.

"Determination of tocopherols in vegetable oils by the polarographic methods", P. 718., (CHEMICKÉ LISTY, Vol. 46, No. 12, Dec. 1952, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

MACHA, FRANTIŠEK

1/2

Antihistamine substances. XXXV. Kinetics of the hydrolysis of antihistamines of the benzhydryl type. Eduard Knobloch, František Macha, Otto Exner, and Miroslav Protiva (Výzkumný ústav farm. biochem., Prague, Czech.). *Chem. Listy* 48, 228-31 (1954); cf. *C.A.* 49, 1604d. Kinetic measurements of the hydrolysis of antihistamines of the benzhydryl type indicate the acid-catalyzed cryptobimolecular reaction. The generally accepted scheme of this reaction was checked by the primary salt effect. The effect of substituents in various positions of the diphenylmethane radical on the hydrolysis rate corresponds to the theoretical considerations. The rate of hydrolysis and antihistamine activity parallel each other though not without exceptions. XXXVI. Preparation of *p*-substituted analogs of Antistina. Jiří O. Jilek, Josef Pomýkáček, and Miroslav Protiva (Výzkumný ústav farm. biochem., Prague, Czech.). *Ibid.* 232-4. — *p*-MeC₆H₄CH₂NPh, m. 42-4°, b.₁₀ 125-6° (50 g.) in 85 ml. MeOH hydrogenated over 10 g. Raney Ni at normal temp. and 100 atm. gave 51 g. (100%) *p*-MeC₆H₄CH₂-

(over)

2/2

Eduard Knobloch

NHPh (I), m. $42-5^\circ$; HCl salt, m. 181° (from EtOH). Similarly was prepd. $p\text{-MeOC}_6\text{H}_4\text{CH}_2\text{NHPh}$ (II), m. $64-6^\circ$ (from EtOH), from $p\text{-MeOC}_6\text{H}_4\text{CH}_2\text{NPh}$, m. 60° . To prep. $p\text{-ClC}_6\text{H}_4\text{CH}_2\text{NHPh}$ (III), 232 g. PhNH_2 in 60 ml. H_2O and 66.2 g. NaHCO_3 were treated at $90-5^\circ$ with 100 g. $p\text{-ClC}_6\text{H}_4\text{CH}_2\text{Cl}$, b.p. 96° ; distn. of the filtered crude product gave 51 g. (33%) III, b.p. $135-40^\circ$; HCl salt, m. 207° . 2-Chloromethylimidazoline-HCl (IV), m. $180-2^\circ$, and PhCH_2NHPh gave 2-(*N*-benzylanilinomethyl)-2-imidazoline (Antistine), m. $121-3^\circ$; HCl salt, m. $233-4^\circ$; methanesulfonate, m. $168-9^\circ$. IV (17.2 g.), 50 g. I, and 75 ml. EtOH refluxed 8 hrs., the EtOH distd. off, the residue stirred with 90 ml. H_2O , mixed with 8.5 g. NaHCO_3 in 90 ml. H_2O at $50-60^\circ$, the mixt. extd. with PhMe , and the aq. phase allowed to cryst. in the icebox gave 18.3 g. (52%) HCl salt of 2-[*N*-(*p*-methylbenzyl)anilinomethyl]-2-imidazoline, m. 224° (from EtOH). Similarly were prepd. from II, 2-[*N*-(*p*-methoxybenzyl)anilinomethyl]-2-imidazoline-HCl, m. $200-12^\circ$ (from EtOH- Me_2CO), and, from III, the 2-[*N*-(*p*-chlorobenzyl)anilinomethyl] analog, m. $232-3^\circ$. M. Hudický

MACHA, J.

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16775.

Author : Kopecký J., Kahoun J., Mácha J., Pilz Z.

Inst :

Title : On the Investigation of the Type of the Kravarzh
Cattle

(Ob issledovanii tipa kravarzhskogo krupnogo rogatogo
skota)

Orig Pub: Sbor. Vysoké školy zeměd. a Lesn. fak. Brně, 1956, A,
No 4, 249-259.

Abstract: In order to study the types of build, the measure-
ments of 13 bulls older than 2 years and of 81 cows
over 5 years of the Kravarzh breed were effected.
By way of comparison, the measurements of the pure-

Card : 1/3

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16775.

bred Red-spotted cows over 5 years were also carried out. For the Kravarzh cattle, the following characteristics were obtained (M in cm): length of the head 47.29, width of the head 22.71; height at the withers 129.62, at the spine 128.00, at the sacrum 131.3, at the base of the tail 137.39; depth of the breast 66.95, width of the breast 44.27; width at the thighs 49.81; width of the pelvis 44.83; transverse length of the trunk 158.34; length of the pelvis 50.67; circumference of the shank 19.58; size of the breast 191.66. M characteristics for the Red-spotted cows are 44.09, 20.87, 134.40, 133.61, 141.13, 142.74, 67.32, 44.80, 51.58, 46.73, 161.06, 52.98, 20.46 and 198.80, respectively. A difference

Card : 2/3

22

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16775.

of the type of frame in animals of the Kravarch
breed and the Red-spotted breed of cattle was
demonstrated.

Card : 3/3

Effect of muscular effort on urinary excretion of urobilinogen. Jarmir Atucha (Ústav tělovýchovného lékařství, Praha). ~~Časopis lékařů českých~~ 90, 87-91 (1951).
The level of urinary urobilinogen in athletes was consistently lower after phys. effort than before. A. 2

MACHA, Jaromir, Maj Dr

Coauthor with Maj Dr Jaromir FRIC, Hradec Kralove Military Medical Academy and Maj Dr Vojtech HAVLIK from the Central Army Home (Ustredni dum armady) in Prague, of article, "Experiences From Research in the Field of Medico-Pedagogical Supervision of Light Athletics," dealing with medico-pedagogical supervision of athletes and coaches and the training of new workers in the physical education field.
(VZL, Dec 54)

SO: Sum. 436, 30 March 1955

MACHA, Jaromir (Maj. MD) (Hradec Kralove Military Medical Academy)

Coauthor, with Valva SELIGER, MD, of Charles University in Prague, of article, "Wenckebach Symptom in Active Sportsmen," describing the Wenckebach symptom in a basketball player. (VZL, Feb 55)

SO: Sum. 600, 1 Aug. 1955,

MACHA, Jaromir

Contribution to the problem of hysteresis of the QT wave in
electrocardiographic function test of the circulatory system.
Cas.lek.cesk. 98 no.48:1480-1484 27 N '60.
(ELECTROCARDIOGRAPHY)

EISNEROVA, L.; HERZMANN, J.; ZEMAN, L.; za technicke spoluprace MACHA, J.;
VRCHLOBSKE, E.

Excretion of 17-hydroxycorticoids and 17-ketosteroids during early months of life. Contribution to the problem of dosage of ACTH in children. Cesk.pediat.16 no.2:135-140 F '61.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel doc.
MUDr. M. Vojta; Prednosta pediatrickeho useku MUDr. K. Polacek.
(CORTICOTROPIN pharmacol)
(ADRENAL CORTEX HORMONES urine)
(17-KETOSTEROIDS urine)
(INFANT NEWBORN urine)

"New method for exploiting the large steep seam No. 29 in the Zofie Mine in Orlov.,"
Uhli, Praha, Vol 3, No 11, Nov. 1953, p. 315

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

The Scientific Research Coal institute, its establishment, purpose, and function, p. 21, UHLI (Ministerstvo paliv a energetiky) Praha, Vol. 5, No. 1, Jan 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

MACHA, Jaroslav

Some notes on mining research in England. Uhlí 3 no.11:384-386 N '61.

1. Vedeckovýzkumný uhelný ústav, Radvanice.

MACHA, Jaroslav

Research on coal mining and coal processing in the German
Federal Republic. Uhlí 4 no.10:354-356 0 '62.

1. Vedeckovýzkumny ustav, Radvanice.

STANEK, Miroslav, inz.; TEYSSLER, Jiri, inz., dr.; FISCHER, Jiri, inz.;
SPITALNIK, inz.; STEKL, inz.; NAVRATIL, Miroslav, inz., dr.;
IBLER, Jaroslav, inz., dr.; KARAS, Frantisek, prof., inz., dr., ScDr.;
CESKA, inz.; HOFFMANN, V., inz.; CHALUPSKY, Josef, inz.;
FAPSO, O., inz.; ROCEK, Jaroslav, inz., ScC.; SVEJDA, J., inz.;
LENCZ, Imrich, inz.; RAJDA, Frantisek; BALOS, Jaroslav, inz.;
MACHA, Jiri, inz.

Third National Conference on the Results of Research and
Development of Power Installations. Energetika Cz:Suppl.:
Energetika 13 no.6:1-24 '63.

MACHA, Jiri, inz.; KOLARIK, Vlastimil, inz.

Use of automatic computers in electric power control. Tech praca
16 no.8:573-578 Ag '64.

1. Czechoslovak State Power Dispatching Center, Prague.

MACHA, Josef, doc., inz., ScC.

Present conditions and prospect of cattle breeding in Czechoslovakia. Vest ust zemedel 10 no.6/7:244-253 '63.

1. Reditel Statni plemenarske spravy, Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi, Praha.

MACHA, Josef, doc., inz., CSc.

Meeting of the European Federation of Spotted Cattle Breeders.
Vest ust zemedel 10 no.10/11:370-374 '63.

MACHA, Josef, inz.

Mechanization of material handling in timber and sleeper yards.
Drevo 19 no.5:177-184 My '64.

1. Jihoceske drevarske zavody National Enterprise, Ceske Budejovice.

528. USE OF ELECTRIC KILNS IN CERAMIC INDUSTRY. Macha, M. (Stavivo (Construction), 1949, vol. 27, 423). The advantages of the electric kiln are discussed; they include fuel economy. The previously held view that electric firing is expensive was based on a superficial comparison of the heating value of electric current with that of other fuels; the actual effectiveness of the heat was overlooked.

B. Ceram. R. A.

MACHA, Vladimir

Development of railway transportation. Zel doptech 10 no.9:557-559 :62.

1. Ustredni' vybor Komunisticke strany Ceskoslovenska..

MACHA, Vladimir

Making the conclusions of the 12th Congress of the Communist
Party of Czechoslovakia a reality. Zelez dop tech 11
no.1:1-2 '63.

1. Ustredni vybor komunisticke strany Ceskoslovenska.

RACHA, Z.

A new method for the exact determination of the existence of coal seams by electric logging.

P. 196. (UHLI) (Praha, Czechoslovakia) Vol. 7, no. 6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

MACHA-ZEISS, A.

Geophysical methods of non-metal prospecting. p. 402

STAVIVO (Ministerstvo stavebnictvi) Vol. 34, No. 11, Nov. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEL) Library of
Congress, Vol. 6, No. 1, January 1957

Candidate Biological Sciences

MACHABELI, A.I.

Hemoplastic transplanting of an auditory vesicle in the region of the rear extremity in an embryo of the small Asiatic triton (*Triton vittatus*). Seeb. AN Gruz. SSR 9 no.3:199-207 '48. (MLRA 9:7)

1. Akademiya nauk Gruzinskoy SSR, Zoologicheskiy institut, Tbilisi.
Predstavleno deystvitel'nym chlenom Akademii F.A. Zaytsevim.
(News) (Embryology--Amphibia) (Transplantation (Physiology))

MACHABELI, A.N.

DECEASED

c'1960

1962/5.

SEE ILC.

MEDICINE

MACHABELI, G.A.

Conditions of the formation of montmorillonite clays in the coal-bearing and Variegated series of the Akhaltsikhe depression. Vop.min. osad.obr. 5:201-210 ' 58. (MIRA 12:3)
(Akhaltsikhe region--Montmorillonite)

MACHABELI, G. A.

Bentonites in the Akhaltsikhe depression. Geol. sbor. [Kavk.]
no. 1:84-94 '59. (MIRA 13:1)
(Georgia--Bentonite)

MACHABELI, G.A.; SMIRNOV, G.M.; SHUBIADZE, R.L.

Mineralogical types and genetic characteristics of refractory
rocks in the Tumanyan deposit. Geol.sbor. [Kavk.] no.1:95-104
'59.

(Armenia--Clay)

(MIRA 13:1)

KETILADZE, K.Ye.; MACHABELI, G.A. (Tbilisi)

Silicosis ~~regards~~ at the Kvaisinskiy and Skaty-Komskiy deposits.
Gig. truda i prof. zab. 4 no.11:53-54 N '60. (MIRA 15:3)

1. Respublikanskiy institut gigiyeny truda i profzabolevaniy
Ministerstva zdavookhraneniya Gruzinskoy SSR i Kavkazskiy
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nedr SSSR.

(OSSETIA—~~MINE~~ DUSTS)
(LUNGS—DUST DISEASES)

MACHABELI, G. A., Cand. Geol-Mineral. Sci. (diss) "Composition and Conditions of Formation of Bentonitic Clays of Akhaltsikhskiy Depression (Georg. SSR)," Tbilisi, 1961 (Geol. Inst. Acad. of Sci. Georg. SSR) 200 copies (KL Supp 12-61, 259).

MERABISHVILI, M.S.; MACHABELI, G.A.; MDIVNISHVILI, O.M.;
KVIRIKADZE, G.A.

Present-day utilization of betonites from principal deposits
of the U.S.S.R. and prospects for its further development.
Geol. sbor. [Kavk.] no.2:222-243 '62. (MIRA 17:1)